Taylor Lamechea

Dr. Gustonförn

9.2-7,37

MATTH 360

HW 9.2

$$9.2$$
 #7  $\hat{a} = [1, -3, 5]$   $\hat{c} = [-2, 9, 1]$ 
 $|\hat{a} \cdot \hat{c}|$ 
 $[1, -3, 5] \cdot [-2, 9, 1] = -2 - 27 + 5 = -24$ 
 $|\hat{a} \cdot \hat{c}| = |-24| = 24$ 

$$|\hat{\alpha}| |\hat{\alpha}|$$

$$|\hat{\alpha}| = \sqrt{1^2 + 3^2 + 5^2} = \sqrt{35}$$

$$|\hat{C}| = \sqrt{2^2 + 9^2 + 1^2} = \sqrt{86}$$

$$\sqrt{35} \cdot \sqrt{86} = \sqrt{3010}$$

à. È=0, the component of A along B is 0 because the two vectors are orthogonal.